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<110> Simard, John J. L.  
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Liu, Liping  
Liu, Zheng

<120> EPITOPE SEQUENCES

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<150> 60/409,123

<151> 2002-09-06

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Leu Pro Trp His Arg Leu Phe Leu Leu
1 5

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<210> 10
<211> 38
<212> PRT
<213> Homo sapiens

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<400> 10
Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile
1 5 10 15
Phe Tyr Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly
20 25 30
Phe Lys Ala Thr Leu Pro
35

```

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<210> 11
<211> 9
<212> PRT
<213> Homo sapiens

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<400> 11
Phe Ser Lys Glu Glu Trp Glu Lys Met
1 5

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<210> 12  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 12  
Lys Met Lys Ala Ser Glu Lys Ile Phe  
1 5

<210> 13  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 13  
Met Lys Ala Ser Glu Lys Ile Phe Tyr  
1 5

<210> 14  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 14  
Lys Met Lys Ala Ser Glu Lys Ile Phe Tyr  
1 5 10

<210> 15  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 15  
Lys Ala Ser Glu Lys Ile Phe Tyr Val  
1 5

<210> 16  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 16  
Met Lys Ala Ser Glu Lys Ile Phe Tyr Val  
1 5 10

<210> 17  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 17  
Lys Ala Ser Glu Lys Ile Phe Tyr Val Tyr



1 5 10

<210> 18  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 18  
Ala Ser Glu Lys Ile Phe Tyr Val Tyr  
1 5

<210> 19  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 19  
Arg Lys Tyr Glu Ala Met Thr Lys Leu  
1 5

<210> 20  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 20  
Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu  
1 5 10

<210> 21  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 21  
Lys Tyr Glu Ala Met Thr Lys Leu Gly Phe  
1 5 10

<210> 22  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 22  
Tyr Glu Ala Met Thr Lys Leu Gly Phe  
1 5

<210> 23  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 23

Glu Ala Met Thr Lys Leu Gly Phe

1 5

<210> 24

<211> 10

<212> PRT

<213> Homo sapiens

<400> 24

Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val

1 5 10

<210> 25

<211> 9

<212> PRT

<213> Homo sapiens

<400> 25

Ala Glu Met Gly Lys Tyr Ser Phe Tyr

1 5

<210> 26

<211> 9

<212> PRT

<213> Homo sapiens

<400> 26

Lys Tyr Ser Glu Lys Ile Ser Tyr Val

1 5

<210> 27

<211> 9

<212> PRT

<213> Homo sapiens

<400> 27

Lys Val Ser Glu Lys Ile Val Tyr Val

1 5

<210> 28

<211> 9

<212> PRT

<213> Homo sapiens

<400> 28

Lys Ser Ser Glu Lys Ile Val Tyr Val

1 5

<210> 29

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 29  
Lys Ala Ser Glu Lys Ile Ile Tyr Val  
1 5

<210> 30  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 30  
Ala Phe Ser Pro Gln Gly Met Pro Glu Gly Asp Leu Val Tyr Val Asn  
1 5 10 15  
Tyr Ala Arg Thr Glu Asp Phe Phe Lys Leu Glu Arg Asp Met  
20 25 30

<210> 31  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 31  
Gly Met Pro Glu Gly Asp Leu Val Tyr Val Asn Tyr Ala Arg Thr Glu  
1 5 10 15  
Asp Phe Phe Lys Leu Glu Arg  
20

<210> 32  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 32  
Met Pro Glu Gly Asp Leu Val Tyr Val  
1 5

<210> 33  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 33  
Gly Met Pro Glu Gly Asp Leu Val Tyr Val  
1 5 10

<210> 34  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 34

Gly Met Pro Glu Gly Asp Leu Val Tyr

1 5

<210> 35

<211> 10

<212> PRT

<213> Homo sapiens

<400> 35

Gln Gly Met Pro Glu Gly Asp Leu Val Tyr

1 5 10

<210> 36

<211> 8

<212> PRT

<213> Homo sapiens

<400> 36

Met Pro Glu Gly Asp Leu Val Tyr

1 5

<210> 37

<211> 9

<212> PRT

<213> Homo sapiens

<400> 37

Glu Gly Asp Leu Val Tyr Val Asn Tyr

1 5

<210> 38

<211> 10

<212> PRT

<213> Homo sapiens

<400> 38

Pro Glu Gly Asp Leu Val Tyr Val Asn Tyr

1 5 10

<210> 39

<211> 10

<212> PRT

<213> Homo sapiens

<400> 39

Leu Val Tyr Val Asn Tyr Ala Arg Thr Glu

1 5 10

<210> 40

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 40  
Val Asn Tyr Ala Arg Thr Glu Asp Phe  
1 5

<210> 41  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 41  
Tyr Val Asn Tyr Ala Arg Thr Glu Asp Phe  
1 5 10

<210> 42  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 42  
Asn Tyr Ala Arg Thr Glu Asp Phe Phe  
1 5

<210> 43  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 43  
Tyr Ala Arg Thr Glu Asp Phe Phe  
1 5

<210> 44  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 44  
Arg Thr Glu Asp Phe Phe Lys Leu Glu  
1 5

<210> 45  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 45  
Arg Gly Ile Ala Glu Ala Val Gly Leu Pro Ser Ile Pro Val His Pro  
1 5 10 15

Ile Gly Tyr Tyr Asp Ala Gln Lys Leu Leu Glu Lys Met Gly  
20 25 30

<210> 46  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 46  
Ile Ala Glu Ala Val Gly Leu Pro Ser Ile Pro Val His Pro Ile Gly  
1 5 10 15  
Tyr Tyr Asp Ala Gln Lys Leu Leu Glu  
20 25

<210> 47  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 47  
Leu Pro Ser Ile Pro Val His Pro Ile  
1 5

<210> 48  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 48  
Gly Leu Pro Ser Ile Pro Val His Pro Ile  
1 5 10

<210> 49  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 49  
Ile Gly Tyr Tyr Asp Ala Gln Lys Leu  
1 5

<210> 50  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 50  
Pro Ile Gly Tyr Tyr Asp Ala Gln Lys Leu  
1 5 10

<210> 51

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 51  
Ser Ile Pro Val His Pro Ile Gly Tyr  
1 5

<210> 52  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 52  
Pro Ser Ile Pro Val His Pro Ile Gly Tyr  
1 5 10

<210> 53  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 53  
Ile Pro Val His Pro Ile Gly Tyr  
1 5

<210> 54  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 54  
Tyr Tyr Asp Ala Gln Lys Leu Leu Glu  
1 5

<210> 55  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 55  
Ser Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val Asp Cys Thr Pro Leu  
1 5 10 15  
Met Tyr Ser Leu Val His Leu Thr Lys Glu Leu  
20 25

<210> 56  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 56

Ile Glu Gly Asn Tyr Thr Leu Arg Val  
1 5

<210> 57  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 57  
Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val  
1 5 10

<210> 58  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 58  
Glu Gly Asn Tyr Thr Leu Arg Val  
1 5

<210> 59  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 59  
Thr Leu Arg Val Asp Cys Thr Pro Leu  
1 5

<210> 60  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 60  
Tyr Thr Leu Arg Val Asp Cys Thr Pro Leu  
1 5 10

<210> 61  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 61  
Leu Arg Val Asp Cys Thr Pro Leu Met  
1 5

<210> 62  
<211> 9  
<212> PRT



<213> Homo sapiens

<400> 62

Arg Val Asp Cys Thr Pro Leu Met Tyr  
1 5

<210> 63

<211> 10

<212> PRT

<213> Homo sapiens

<400> 63

Leu Arg Val Asp Cys Thr Pro Leu Met Tyr  
1 5 10

<210> 64

<211> 35

<212> PRT

<213> Homo sapiens

<400> 64

Phe Asp Lys Ser Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu  
1 5 10 15  
Met Phe Leu Glu Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg  
20 25 30  
Pro Phe Tyr  
35

<210> 65

<211> 22

<212> PRT

<213> Homo sapiens

<400> 65

Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu Arg Ala Phe  
1 5 10 15  
Ile Asp Pro Leu Gly Leu  
20

<210> 66

<211> 9

<212> PRT

<213> Homo sapiens

<400> 66

Met Met Asn Asp Gln Leu Met Phe Leu  
1 5

<210> 67

<211> 10

<212> PRT

<213> Homo sapiens

<400> 67

Arg Met Met Asn Asp Gln Leu Met Phe Leu  
1 5 10

<210> 68

<211> 9

<212> PRT

<213> Homo sapiens

<400> 68

Arg Met Met Asn Asp Gln Leu Met Phe  
1 5

<210> 69

<211> 17

<212> PRT

<213> Homo sapiens

<400> 69

Met Leu Leu Ala Val Leu Tyr Cys Leu Leu Trp Ser Phe Gln Thr Ser  
1 5 10 15  
Ala

<210> 70

<211> 661

<212> PRT

<213> Homo sapiens

<400> 70

Met Asp Leu Val Leu Lys Arg Cys Leu Leu His Leu Ala Val Ile Gly  
1 5 10 15  
Ala Leu Leu Ala Val Gly Ala Thr Lys Val Pro Arg Asn Gln Asp Trp  
20 25 30  
Leu Gly Val Ser Arg Gln Leu Arg Thr Lys Ala Trp Asn Arg Gln Leu  
35 40 45  
Tyr Pro Glu Trp Thr Glu Ala Gln Arg Leu Asp Cys Trp Arg Gly Gly  
50 55 60  
Gln Val Ser Leu Lys Val Ser Asn Asp Gly Pro Thr Leu Ile Gly Ala  
65 70 75 80  
Asn Ala Ser Phe Ser Ile Ala Leu Asn Phe Pro Gly Ser Gln Lys Val  
85 90 95  
Leu Pro Asp Gly Gln Val Ile Trp Val Asn Asn Thr Ile Ile Asn Gly  
100 105 110  
Ser Gln Val Trp Gly Gly Gln Pro Val Tyr Pro Gln Glu Thr Asp Asp  
115 120 125  
Ala Cys Ile Phe Pro Asp Gly Gly Pro Cys Pro Ser Gly Ser Trp Ser  
130 135 140  
Gln Lys Arg Ser Phe Val Tyr Val Trp Lys Thr Trp Gly Gln Tyr Trp  
145 150 155 160  
Gln Val Leu Gly Gly Pro Val Ser Gly Leu Ser Ile Gly Thr Gly Arg  
165 170 175  
Ala Met Leu Gly Thr His Thr Met Glu Val Thr Val Tyr His Arg Arg

			180					185					190			
Gly	Ser	Arg	Ser	Tyr	Val	Pro	Leu	Ala	His	Ser	Ser	Ser	Ala	Phe	Thr	
		195					200					205				
Ile	Thr	Asp	Gln	Val	Pro	Phe	Ser	Val	Ser	Val	Ser	Gln	Leu	Arg	Ala	
	210					215					220					
Leu	Asp	Gly	Gly	Asn	Lys	His	Phe	Leu	Arg	Asn	Gln	Pro	Leu	Thr	Phe	
225					230					235					240	
Ala	Leu	Gln	Leu	His	Asp	Pro	Ser	Gly	Tyr	Leu	Ala	Glu	Ala	Asp	Leu	
				245					250					255		
Ser	Tyr	Thr	Trp	Asp	Phe	Gly	Asp	Ser	Ser	Gly	Thr	Leu	Ile	Ser	Arg	
			260					265					270			
Ala	Pro	Val	Val	Thr	His	Thr	Tyr	Leu	Glu	Pro	Gly	Pro	Val	Thr	Ala	
		275					280					285				
Gln	Val	Val	Leu	Gln	Ala	Ala	Ile	Pro	Leu	Thr	Ser	Cys	Gly	Ser	Ser	
	290					295					300					
Pro	Val	Pro	Gly	Thr	Thr	Asp	Gly	His	Arg	Pro	Thr	Ala	Glu	Ala	Pro	
305					310					315					320	
Asn	Thr	Thr	Ala	Gly	Gln	Val	Pro	Thr	Thr	Glu	Val	Val	Gly	Thr	Thr	
				325					330					335		
Pro	Gly	Gln	Ala	Pro	Thr	Ala	Glu	Pro	Ser	Gly	Thr	Thr	Ser	Val	Gln	
			340					345					350			
Val	Pro	Thr	Thr	Glu	Val	Ile	Ser	Thr	Ala	Pro	Val	Gln	Met	Pro	Thr	
		355					360					365				
Ala	Glu	Ser	Thr	Gly	Met	Thr	Pro	Glu	Lys	Val	Pro	Val	Ser	Glu	Val	
	370					375					380					
Met	Gly	Thr	Thr	Leu	Ala	Glu	Met	Ser	Thr	Pro	Glu	Ala	Thr	Gly	Met	
385					390					395					400	
Thr	Pro	Ala	Glu	Val	Ser	Ile	Val	Val	Leu	Ser	Gly	Thr	Thr	Ala	Ala	
				405					410					415		
Gln	Val	Thr	Thr	Thr	Glu	Trp	Val	Glu	Thr	Thr	Ala	Arg	Glu	Leu	Pro	
			420					425					430			
Ile	Pro	Glu	Pro	Glu	Gly	Pro	Asp	Ala	Ser	Ser	Ile	Met	Ser	Thr	Glu	
		435					440					445				
Ser	Ile	Thr	Gly	Ser	Leu	Gly	Pro	Leu	Leu	Asp	Gly	Thr	Ala	Thr	Leu	
	450					455					460					
Arg	Leu	Val	Lys	Arg	Gln	Val	Pro	Leu	Asp	Cys	Val	Leu	Tyr	Arg	Tyr	
465					470					475					480	
Gly	Ser	Phe	Ser	Val	Thr	Leu	Asp	Ile	Val	Gln	Gly	Ile	Glu	Ser	Ala	
				485					490					495		
Glu	Ile	Leu	Gln	Ala	Val	Pro	Ser	Gly	Glu	Gly	Asp	Ala	Phe	Glu	Leu	
			500					505					510			
Thr	Val	Ser	Cys	Gln	Gly	Gly	Leu	Pro	Lys	Glu	Ala	Cys	Met	Glu	Ile	
		515					520					525				
Ser	Ser	Pro	Gly	Cys	Gln	Pro	Pro	Ala	Gln	Arg	Leu	Cys	Gln	Pro	Val	
		530				535					540					

Pro Arg Ile Phe Cys Ser Cys Pro Ile Gly Glu Asn Ser Pro Leu Leu  
645 650 655  
Ser Gly Gln Gln Val  
660

<210> 71  
<211> 309  
<212> PRT  
<213> Homo sapiens

<400> 71  
Met Ser Leu Glu Gln Arg Ser Leu His Cys Lys Pro Glu Glu Ala Leu  
1 5 10 15  
Glu Ala Gln Gln Glu Ala Leu Gly Leu Val Cys Val Gln Ala Ala Thr  
20 25 30  
Ser Ser Ser Ser Pro Leu Val Leu Gly Thr Leu Glu Glu Val Pro Thr  
35 40 45  
Ala Gly Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe  
50 55 60  
Pro Thr Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser  
65 70 75 80  
Ser Ser Arg Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu Glu Ser  
85 90 95  
Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe  
100 105 110  
Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
115 120 125  
Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro Glu Ile Phe  
130 135 140  
Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys  
145 150 155 160  
Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val Thr Cys Leu Gly  
165 170 175  
Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Thr  
180 185 190  
Gly Phe Leu Ile Ile Val Leu Val Met Ile Ala Met Glu Gly Gly His  
195 200 205  
Ala Pro Glu Glu Glu Ile Trp Glu Glu Leu Ser Val Met Glu Val Tyr  
210 215 220  
Asp Gly Arg Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu Thr  
225 230 235 240  
Gln Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg Gln Val Pro Asp  
245 250 255  
Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ala  
260 265 270  
Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala  
275 280 285  
Arg Val Arg Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu  
290 295 300  
Glu Glu Glu Gly Val  
305

<210> 72  
<211> 314  
<212> PRT

<213> Homo sapiens

<400> 72

```
Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu
 1          5          10          15
Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
          20          25          30
Thr Glu Glu Gln Gln Thr Ala Ser Ser Ser Ser Thr Leu Val Glu Val
          35          40          45
Thr Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro Pro His Ser
          50          55          60
Pro Gln Gly Ala Ser Ser Phe Ser Thr Thr Ile Asn Tyr Thr Leu Trp
65          70          75          80
Arg Gln Ser Asp Glu Gly Ser Ser Asn Gln Glu Glu Glu Gly Pro Arg
          85          90          95
Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys
          100          105          110
Met Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu
          115          120          125
Pro Val Thr Lys Ala Glu Met Leu Glu Ser Val Leu Arg Asn Cys Gln
          130          135          140
Asp Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu
145          150          155          160
Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr
          165          170          175
Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp
          180          185          190
Asn Gln Val Met Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile
          195          200          205
Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu
          210          215          220
Leu Ser Met Leu Glu Val Phe Glu Gly Arg Glu Asp Ser Val Phe Ala
225          230          235          240
His Pro Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu
          245          250          255
Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu
          260          265          270
Trp Gly Pro Arg Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu His
          275          280          285
His Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu
          290          295          300
His Glu Arg Ala Leu Arg Glu Gly Glu Glu
305          310
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<210> 73

<211> 314

<212> PRT

<213> Homo sapiens

<400> 73

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Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu
 1          5          10          15
Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
          20          25          30
Thr Glu Glu Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu Val Glu Val
          35          40          45
```

Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser  
 50 55 60  
 Pro Gln Gly Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp  
 65 70 75 80  
 Ser Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser  
 85 90 95  
 Thr Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys  
 100 105 110  
 Val Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu  
 115 120 125  
 Pro Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Asn Trp Gln  
 130 135 140  
 Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu  
 145 150 155 160  
 Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr  
 165 170 175  
 Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp  
 180 185 190  
 Asn Gln Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val Leu Ala Ile  
 195 200 205  
 Ile Ala Arg Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu  
 210 215 220  
 Leu Ser Val Leu Glu Val Phe Glu Gly Arg Glu Asp Ser Ile Leu Gly  
 225 230 235 240  
 Asp Pro Lys Lys Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu  
 245 250 255  
 Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu  
 260 265 270  
 Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu His  
 275 280 285  
 His Met Val Lys Ile Ser Gly Gly Pro His Ile Ser Tyr Pro Pro Leu  
 290 295 300  
 His Glu Trp Val Leu Arg Glu Gly Glu Glu  
 305 310

<210> 74

<211> 180

<212> PRT

<213> Homo sapiens

<400> 74

Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
 1 5 10 15  
 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
 20 25 30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
 35 40 45  
 Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro  
 50 55 60  
 His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala  
 65 70 75 80  
 Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe  
 85 90 95  
 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp  
 100 105 110  
 Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val

115                      120                      125  
 Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln  
 130                      135                      140  
 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met  
 145                      150                      155                      160  
 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser  
 165                      170                      175  
 Gly Gln Arg Arg  
 180

<210> 75  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 75  
 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
 1                      5                      10                      15  
 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
 20                      25                      30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
 35                      40                      45  
 Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
 50                      55                      60  
 His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
 65                      70                      75                      80  
 Arg Arg Pro Asp Ser Arg Leu Leu Glu Leu His Ile Thr Met Pro Phe  
 85                      90                      95  
 Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg Ile Leu Ser Arg Asp  
 100                      105                      110  
 Ala Ala Pro Leu Pro Arg Pro Gly Ala Val Leu Lys Asp Phe Thr Val  
 115                      120                      125  
 Ser Gly Asn Leu Leu Phe Ile Arg Leu Thr Ala Ala Asp His Arg Gln  
 130                      135                      140  
 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met  
 145                      150                      155                      160  
 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Ala Pro Ser  
 165                      170                      175  
 Gly Gln Arg Arg  
 180

<210> 76  
 <211> 210  
 <212> PRT  
 <213> Homo sapiens

<400> 76  
 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
 1                      5                      10                      15  
 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
 20                      25                      30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
 35                      40                      45  
 Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
 50                      55                      60

His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
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 Arg Arg Pro Asp Ser Arg Leu Leu Glu Leu His Ile Thr Met Pro Phe  
 85 90 95  
 Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg Ile Leu Ser Arg Asp  
 100 105 110  
 Ala Ala Pro Leu Pro Arg Pro Gly Ala Val Leu Lys Asp Phe Thr Val  
 115 120 125  
 Ser Gly Asn Leu Leu Phe Met Ser Val Trp Asp Gln Asp Arg Glu Gly  
 130 135 140  
 Ala Gly Arg Met Arg Val Val Gly Trp Gly Leu Gly Ser Ala Ser Pro  
 145 150 155 160  
 Glu Gly Gln Lys Ala Arg Asp Leu Arg Thr Pro Lys His Lys Val Ser  
 165 170 175  
 Glu Gln Arg Pro Gly Thr Pro Gly Pro Pro Pro Glu Gly Ala Gln  
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 Gly Asp Gly Cys Arg Gly Val Ala Phe Asn Val Met Phe Ser Ala Pro  
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 His Ile  
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<210> 77  
 <211> 509  
 <212> PRT  
 <213> Homo sapiens

<400> 77  
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 Pro Arg Glu Leu Phe Pro Pro Leu Phe Met Ala Ala Phe Asp Gly Arg  
 50 55 60  
 His Ser Gln Thr Leu Lys Ala Met Val Gln Ala Trp Pro Phe Thr Cys  
 65 70 75 80  
 Leu Pro Leu Gly Val Leu Met Lys Gly Gln His Leu His Leu Glu Thr  
 85 90 95  
 Phe Lys Ala Val Leu Asp Gly Leu Asp Val Leu Leu Ala Gln Glu Val  
 100 105 110  
 Arg Pro Arg Arg Trp Lys Leu Gln Val Leu Asp Leu Arg Lys Asn Ser  
 115 120 125  
 His Gln Asp Phe Trp Thr Val Trp Ser Gly Asn Arg Ala Ser Leu Tyr  
 130 135 140  
 Ser Phe Pro Glu Pro Glu Ala Ala Gln Pro Met Thr Lys Lys Arg Lys  
 145 150 155 160  
 Val Asp Gly Leu Ser Thr Glu Ala Glu Gln Pro Phe Ile Pro Val Glu  
 165 170 175  
 Val Leu Val Asp Leu Phe Leu Lys Glu Gly Ala Cys Asp Glu Leu Phe  
 180 185 190  
 Ser Tyr Leu Ile Glu Lys Val Lys Arg Lys Lys Asn Val Leu Arg Leu  
 195 200 205  
 Cys Cys Lys Lys Leu Lys Ile Phe Ala Met Pro Met Gln Asp Ile Lys  
 210 215 220  
 Met Ile Leu Lys Met Val Gln Leu Asp Ser Ile Glu Asp Leu Glu Val



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Thr Cys Thr Trp Lys Leu Pro Thr Leu Ala Lys Phe Ser Pro Tyr Leu						
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Gly Gln Met Ile Asn Leu Arg Arg Leu Leu Leu Ser His Ile His Ala						
	260		265		270	
Ser Ser Tyr Ile Ser Pro Glu Lys Glu Glu Gln Tyr Ile Ala Gln Phe						
	275		280		285	
Thr Ser Gln Phe Leu Ser Leu Gln Cys Leu Gln Ala Leu Tyr Val Asp						
	290		295		300	
Ser Leu Phe Phe Leu Arg Gly Arg Leu Asp Gln Leu Leu Arg His Val						
305		310		315		320
Met Asn Pro Leu Glu Thr Leu Ser Ile Thr Asn Cys Arg Leu Ser Glu						
	325		330		335	
Gly Asp Val Met His Leu Ser Gln Ser Pro Ser Val Ser Gln Leu Ser						
	340		345		350	
Val Leu Ser Leu Ser Gly Val Met Leu Thr Asp Val Ser Pro Glu Pro						
	355		360		365	
Leu Gln Ala Leu Leu Glu Arg Ala Ser Ala Thr Leu Gln Asp Leu Val						
	370		375		380	
Phe Asp Glu Cys Gly Ile Thr Asp Asp Gln Leu Leu Ala Leu Leu Pro						
385		390		395		400
Ser Leu Ser His Cys Ser Gln Leu Thr Thr Leu Ser Phe Tyr Gly Asn						
	405		410		415	
Ser Ile Ser Ile Ser Ala Leu Gln Ser Leu Leu Gln His Leu Ile Gly						
	420		425		430	
Leu Ser Asn Leu Thr His Val Leu Tyr Pro Val Pro Leu Glu Ser Tyr						
	435		440		445	
Glu Asp Ile His Gly Thr Leu His Leu Glu Arg Leu Ala Tyr Leu His						
	450		455		460	
Ala Arg Leu Arg Glu Leu Cys Glu Leu Gly Arg Pro Ser Met Val						
465		470		475		480
Trp Leu Ser Ala Asn Pro Cys Pro His Cys Gly Asp Arg Thr Phe Tyr						
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Asp Pro Glu Pro Ile Leu Cys Pro Cys Phe Met Pro Asn						
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<210> 78

<211> 261

<212> PRT

<213> Homo sapiens

<400> 78

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Lys His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala						
	35		40		45	
Val Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala						
	50		55		60	
His Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu						
65		70		75		80
Phe His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe						
	85		90		95	
Pro His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg						
	100		105		110	

Pro Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu  
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 Pro Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln  
 130 135 140  
 Glu Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile  
 145 150 155 160  
 Glu Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu  
 165 170 175  
 His Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val  
 180 185 190  
 Thr Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Thr  
 195 200 205  
 Cys Ser Gly Asp Ser Gly Gly Pro Leu Val Cys Asn Gly Val Leu Gln  
 210 215 220  
 Gly Ile Thr Ser Trp Gly Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro  
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<210> 79  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 79  
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 Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys  
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 Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly  
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 Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly  
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 <211> 2817  
 <212> DNA  
 <213> Homo sapiens

<400> 80  
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<210> 81

<211> 2420

<212> DNA

<213> Homo sapiens

<400> 81

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<210> 82

<211> 4559

<212> DNA

<213> Homo sapiens

<400> 82

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<212> DNA

<213> Homo sapiens

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<211> 1466

<212> DNA

<213> Homo sapiens

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<211> 990

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

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<223> n = A,T,C or G

<400> 87

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<210> 88

<211> 702

<212> PRT

<213> Homo sapiens

<400> 88

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Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
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Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
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Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
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Thr	Ile	Ser	Pro	Leu	Asn	Thr	Ser	Tyr	Arg	Ser	Gly	Glu	Asn	Leu	Asn
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Trp															

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Val Ser Ala Asn Arg Ser Asp Pro	Val Thr Leu Asp Val Leu Tyr Gly					
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Pro Asp Thr Pro Ile Ile Ser Pro	Pro Asp Ser Ser Tyr Leu Ser Gly					
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Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser	Asn Pro Ser Pro Gln					
	610	615		620		
Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu						
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Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe						
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Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile						
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<211> 2974

<212> DNA

<213> Homo sapiens

<400> 89

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<210> 90

<211> 1255

<212> PRT

<213> Homo sapiens

<400> 90

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Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
35     40     45
Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
50     55     60
Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
65     70     75     80
Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
85     90     95
Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
100    105    110
Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
115    120    125
Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
130    135    140
Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
145    150    155    160
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn
165    170    175
Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
180    185    190
His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
195    200    205
Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
210    215    220
Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
225    230    235    240

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37 .

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Arg Lys Val Lys Val	Leu Gly Ser Gly Ala Phe	Gly Thr Val Tyr Lys
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Gly Ile Trp Ile Pro	Asp Gly Glu Asn Val	Lys Ile Pro Val Ala Ile
740	745	750
Lys Val Leu Arg Glu	Asn Thr Ser Pro Lys	Ala Asn Lys Glu Ile Leu
755	760	765
Asp Glu Ala Tyr Val	Met Ala Gly Val Gly	Ser Pro Tyr Val Ser Arg
770	775	780
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785	790	795
Met Pro Tyr Gly Cys	Leu Leu Asp His Val	Arg Glu Asn Arg Gly Arg
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Met Ser Tyr Leu Glu	Asp Val Arg Leu Val	His Arg Asp Leu Ala Ala
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Arg Asn Val Leu Val	Lys Ser Pro Asn His	Val Lys Ile Thr Asp Phe
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Gly Leu Ala Arg Leu	Leu Asp Ile Asp Glu	Thr Glu Tyr His Ala Asp
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Trp Glu Leu Met Thr	Phe Gly Ala Lys Pro	Tyr Asp Gly Ile Pro Ala
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965	970	975
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980	985	990
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Leu Glu Asp Asp Asp	Met Gly Asp Leu Val	Asp Ala Glu Glu Tyr Leu
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1090	1095	1100
Asp Pro Ser Pro Leu	Gln Arg Tyr Ser Glu	Asp Pro Thr Val Pro Leu
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Pro Glu Tyr Val Asn	Gln Pro Asp Val Arg	Pro Gln Pro Pro Ser Pro
1140	1145	1150

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 1155 1160 1165  
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 1170 1175 1180  
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 1185 1190 1195 1200  
 Gly Gly Ala Ala Pro Gln Pro His Pro Pro Ala Phe Ser Pro Ala  
 1205 1210 1215  
 Phe Asp Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala  
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 <212> DNA  
 <213> Homo sapiens

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<210> 92

<211> 976

<212> PRT

<213> Homo sapiens

<400> 92

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35           40           45
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50           55           60
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	115			120		125
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	130			135		140
Arg Lys Ala Ile Gln Glu Leu Gln Phe Gly Asn Glu Lys Val Ser Leu						
145				150		155
Lys Leu Glu Glu Gly Ile Gln Glu Asn Lys Asp Leu Ile Lys Glu Asn						
	165			170		175
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	180			185		190
Ser Ala Glu Lys Thr Lys Lys Tyr Glu Tyr Glu Arg Glu Glu Thr Arg						
	195			200		205
Gln Val Tyr Met Asp Leu Asn Asn Asn Ile Glu Lys Met Ile Thr Ala						
	210			215		220
His Gly Glu Leu Arg Val Gln Ala Glu Asn Ser Arg Leu Glu Met His						
225				230		235
Phe Lys Leu Lys Glu Asp Tyr Glu Lys Ile Gln His Leu Glu Gln Glu						
	245			250		255
Tyr Lys Lys Glu Ile Asn Asp Lys Glu Lys Gln Val Ser Leu Leu Leu						
	260			265		270
Ile Gln Ile Thr Glu Lys Glu Asn Lys Met Lys Asp Leu Thr Phe Leu						
	275			280		285
Leu Glu Glu Ser Arg Asp Lys Val Asn Gln Leu Glu Glu Lys Thr Lys						
	290			295		300
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	325			330		335
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	340			345		350
Cys Gln Leu Thr Glu Glu Lys Glu Thr Gln Met Glu Glu Ser Asn Lys						
	355			360		365
Ala Arg Ala Ala His Ser Phe Val Val Thr Glu Phe Glu Thr Thr Val						
	370			375		380
Cys Ser Leu Glu Glu Leu Leu Arg Thr Glu Gln Gln Arg Leu Glu Lys						
385				390		395
Asn Glu Asp Gln Leu Lys Ile Leu Thr Met Glu Leu Gln Lys Lys Ser						
	405			410		415
Ser Glu Leu Glu Glu Met Thr Lys Leu Thr Asn Asn Lys Glu Val Glu						
	420			425		430
Leu Glu Glu Leu Lys Lys Val Leu Gly Glu Lys Glu Thr Leu Leu Tyr						
	435			440		445
Glu Asn Lys Gln Phe Glu Lys Ile Ala Glu Glu Leu Lys Gly Thr Glu						
	450			455		460
Gln Glu Leu Ile Gly Leu Leu Gln Ala Arg Glu Lys Glu Val His Asp						
465				470		475
Leu Glu Ile Gln Leu Thr Ala Ile Thr Thr Ser Glu Gln Tyr Tyr Ser						
	485			490		495
Lys Glu Val Lys Asp Leu Lys Thr Glu Leu Glu Asn Glu Lys Leu Lys						
	500			505		510
Asn Thr Glu Leu Thr Ser His Cys Asn Lys Leu Ser Leu Glu Asn Lys						
	515			520		525

Glu Leu Thr Gln Glu Thr Ser Asp Met Thr Leu Glu Leu Lys Asn Gln  
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 Gln Glu Asp Ile Asn Asn Asn Lys Lys Gln Glu Glu Arg Met Leu Lys  
 545 550 555 560  
 Gln Ile Glu Asn Leu Gln Glu Thr Glu Thr Gln Leu Arg Asn Glu Leu  
 565 570 575  
 Glu Tyr Val Arg Glu Glu Leu Lys Gln Lys Arg Asp Glu Val Lys Cys  
 580 585 590  
 Lys Leu Asp Lys Ser Glu Glu Asn Cys Asn Asn Leu Arg Lys Gln Val  
 595 600 605  
 Glu Asn Lys Asn Lys Tyr Ile Glu Glu Leu Gln Gln Glu Asn Lys Ala  
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 625 630 635 640  
 Ile Lys Val Asn Lys Leu Glu Leu Glu Leu Glu Ser Ala Lys Gln Lys  
 645 650 655  
 Phe Gly Glu Ile Thr Asp Thr Tyr Gln Lys Glu Ile Glu Asp Lys Lys  
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 Ile Ser Glu Glu Asn Leu Leu Glu Glu Val Glu Lys Ala Lys Val Ile  
 675 680 685  
 Ala Asp Glu Ala Val Lys Leu Gln Lys Glu Ile Asp Lys Arg Cys Gln  
 690 695 700  
 His Lys Ile Ala Glu Met Val Ala Leu Met Glu Lys His Lys His Gln  
 705 710 715 720  
 Tyr Asp Lys Ile Ile Glu Glu Arg Asp Ser Glu Leu Gly Leu Tyr Lys  
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 Ser Lys Glu Gln Glu Gln Ser Ser Leu Arg Ala Ser Leu Glu Ile Glu  
 740 745 750  
 Leu Ser Asn Leu Lys Ala Glu Leu Leu Ser Val Lys Lys Gln Leu Glu  
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 Ile Glu Arg Glu Glu Lys Glu Lys Leu Lys Arg Glu Ala Lys Glu Asn  
 770 775 780  
 Thr Ala Thr Leu Lys Glu Lys Lys Asp Lys Lys Thr Gln Thr Phe Leu  
 785 790 795 800  
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 Ser Gln Thr Val Ser Arg Asn Phe Thr Ser Val Asp His Gly Ile Ser  
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 Lys Asp Lys Arg Asp Tyr Leu Trp Thr Ser Ala Lys Asn Thr Leu Ser  
 835 840 845  
 Thr Pro Leu Pro Lys Ala Tyr Thr Val Lys Thr Pro Thr Lys Pro Lys  
 850 855 860  
 Leu Gln Gln Arg Glu Asn Leu Asn Ile Pro Ile Glu Glu Ser Lys Lys  
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 Lys Arg Lys Met Ala Phe Glu Phe Asp Ile Asn Ser Asp Ser Ser Glu  
 885 890 895  
 Thr Thr Asp Leu Leu Ser Met Val Ser Glu Glu Glu Thr Leu Lys Thr  
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 Leu Tyr Arg Asn Asn Asn Pro Pro Ala Ser His Leu Cys Val Lys Thr  
 915 920 925  
 Pro Lys Lys Ala Pro Ser Ser Leu Thr Thr Pro Gly Pro Thr Leu Lys  
 930 935 940  
 Phe Gly Ala Ile Arg Lys Met Arg Glu Asp Arg Trp Ala Val Ile Ala  
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 Lys Met Asp Arg Lys Lys Lys Leu Lys Glu Ala Glu Lys Leu Phe Val  
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<210> 93  
 <211> 3393  
 <212> DNA  
 <213> Homo sapiens

<400> 93  
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 aaaaatgcg gaggaccgtt gggctgtaat tgctaaaatg gatagaaaa aaaaactaaa 3000

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ttaactacat attgtctgga aacctgtcat tgtattcaga taattagatg attatatatt 3240
gttggttactt tttcttgat tcatgaaaac tgtttttact aagttttcaa atttgtaaag 3300
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<210> 94

<211> 188

<212> PRT

<213> Homo sapiens

<400> 94

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20      25      30
Ser Lys Lys Glu Trp Glu Lys Met Lys Ser Ser Glu Lys Ile Val Tyr
35      40      45
Val Tyr Met Lys Leu Asn Tyr Glu Val Met Thr Lys Leu Gly Phe Lys
50      55      60
Val Thr Leu Pro Pro Phe Met Arg Ser Lys Arg Ala Ala Asp Phe His
65      70      75      80
Gly Asn Asp Phe Gly Asn Asp Arg Asn His Arg Asn Gln Val Glu Arg
85      90      95
Pro Gln Met Thr Phe Gly Ser Leu Gln Arg Ile Phe Pro Lys Ile Met
100     105     110
Pro Lys Lys Pro Ala Glu Glu Glu Asn Gly Leu Lys Glu Val Pro Glu
115     120     125
Ala Ser Gly Pro Gln Asn Asp Gly Lys Gln Leu Cys Pro Pro Gly Asn
130     135     140
Pro Ser Thr Leu Glu Lys Ile Asn Lys Thr Ser Gly Pro Lys Arg Gly
145     150     155     160
Lys His Ala Trp Thr His Arg Leu Arg Glu Arg Lys Gln Leu Val Val
165     170     175
Tyr Glu Glu Ile Ser Asp Pro Glu Glu Asp Asp Glu
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<210> 95

<211> 576

<212> DNA

<213> Homo sapiens

<400> 95

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ctaggtttca aggtcaccct cccacctttc atgcgtagta aacgggctgc agacttccac 240
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<210> 96  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 96  
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 20 25 30  
 Glu Gln Gly His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp  
 35 40 45  
 Gly Gln Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu  
 50 55 60  
 Glu Glu Met Arg Ser His Tyr Val Ala Gln Thr Gly Ile Leu Trp Leu  
 65 70 75 80  
 Leu Met Asn Asn Cys Phe Leu Asn Leu Ser Pro Arg Lys Pro  
 85 90

<210> 97  
 <211> 646  
 <212> DNA  
 <213> Homo sapiens

<400> 97  
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 ggaagatcga cctatcggcc tagaccaaga cgctacgtag agcctcctga aatgattggg 120  
 cctatgcggc ccgagcagtt cagtgatgaa gtggaaccag caacacctga agaaggggaa 180  
 ccagcaactc aacgtcagga tcctgcagct gctcaggagg gagaggatga gggagcatct 240  
 gcaggtcaag ggccgaagcc tgaagctgat agccaggaac agggtcaccc acagactggg 300  
 tgtgagtgtg aagatgggtcc tgatgggcag gagatggacc cgccaaatcc agaggaggtg 360  
 aaaacgcctg aagaagagat gaggtctcac tatgttgccc agactgggat tctctggctt 420  
 ttaatgaaca attgcttctt aaatctttcc ccacggaaac cttgagtgac tgaaatatca 480  
 aatggcgaga gaccgttttag ttctatcat ctgtggcatg tgaagggcaa tcacagtgtt 540  
 aaaagaagac atgtgaaat gttgcaggct gctcctatgt tggaataatc ttcattgaag 600  
 ttctcccaat aaagctttac agccttctgc aaagaaaaaa aaaaaa 646

<210> 98  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 98  
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 Phe Lys Glu Leu Glu Gly Trp Glu Pro Asp Asp Asp Pro Ile Glu Glu  
 20 25 30  
 His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln  
 35 40 45  
 Phe Glu Glu Leu Thr Leu Gly Glu Phe Leu Lys Leu Asp Arg Glu Arg  
 50 55 60  
 Ala Lys Asn Lys Ile Ala Lys Glu Thr Asn Asn Lys Lys Lys Glu Phe  
 65 70 75 80  
 Glu Glu Thr Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala  
 85 90 95  
 Met Asp

<210> 99  
 <211> 1619  
 <212> DNA  
 <213> Homo sapiens

<400> 99  
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 ctggcccttc ttggaggggt gcgcctgcac cccggagcgg atggccgagg ctggcttcat 180  
 ccaactgcccc actgagaacg agccagactt ggcccagtgt ttcttctgct tcaaggagct 240  
 ggaaggctgg gagccagatg acgaccccat agaggaacat aaaaagcatt cgtccggttg 300  
 cgctttcctt tctgtcaaga agcagtttga agaattaacc cttggtgaat ttttgaaact 360  
 ggacagagaa agagccaaga acaaaattgc aaaggaaacc aacaataaga agaaagaatt 420  
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 gtgccaccag ccttcctgtg ggccccttag caatgtctta ggaaaggaga tcaacatttt 600  
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 tattttgttt gaattgttaa ttcacagaat agcacaact acaattaaaa ctaagcacia 1140  
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<210> 100  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
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 20 25 30  
 Glu Gly Phe Asp His Arg Asp Ser Lys Val Ser Leu Gln Glu Lys Asn  
 35 40 45  
 Cys Glu Pro Val Val Pro Asn Ala Pro Pro Ala Tyr Glu Lys Leu Ser  
 50 55 60  
 Ala Glu Gln Ser Pro Pro Pro Tyr Ser Pro  
 65 70

<210> 101  
 <211> 1524

<212> DNA

<213> Homo sapiens

<400> 101

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cggctgaaga ggccgctggg atcggcatcc tgacagtgat cctgggagtc ttactgctca 180
tcggctggtg gtattgtaga agacgaaatg gatacagagc cttgatggat aaaagtcttc 240
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<210> 102

<211> 43

<212> PRT

<213> Homo sapiens

<400> 102

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Pro Glu Asp Gly Thr Ala Leu Cys Phe Ile Phe
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<210> 103

<211> 1004

<212> DNA

<213> Homo sapiens

<400> 103

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gtgggtggcaa cagagatggc agcgcagctg gagtggttag agggcggcct gagcggtagg 180
agtggggctg gagcagtaag atggcggcca gagcgggttt tctggcattg tctgcccagc 240
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aagacggcac agctctgtgc ttcattctct gaggttgtgg cagccacggt gatggagacg 360
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gcagctcaac aggagcaata ggaggagatg gagtttctact gtgtcagcca ggatgggtctc 420
gatctcctga cctcgtgatc cgcccgccctt ggccttccaa agtgccgaga ttacagcgat 480
gtgcattttg taagcacttt ggagccacta tcaaagtctg tgaagagaaa tgtacccaga 540
tgtatcatta tccttgtgct gcaggagccg gctcctttca ggattttcagt cacatcttcc 600
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ttttaaactt caaccaatgt atttactgaa aataacaaat gttgtaaatt ccctgagtgt 720
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ccactgtaga atgatgtaaa tagggactgt gcagtatttc tgacatatac tataaaatta 960
ttaaaaagtc aatcagtatt caacatcttt tacactaaaa agcc 1004

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<210> 104

<211> 9

<212> PRT

<213> Homo sapiens

<400> 104

Trp Val Leu Thr Ala Ala His Cys Ile

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<210> 105

<211> 263

<212> PRT

<213> Homo sapiens

<400> 105

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Pro Met Trp Phe Leu Val Leu Cys Leu Ala Leu Ser Leu Gly Gly Thr
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Gly Ala Ala Pro Pro Ile Gln Ser Arg Ile Val Gly Gly Trp Glu Cys
20 25 30
Glu Gln His Ser Gln Pro Trp Gln Ala Ala Leu Tyr His Phe Ser Thr
35 40 45
Phe Gln Cys Gly Gly Ile Leu Val His Arg Gln Trp Val Leu Thr Ala
50 55 60
Ala His Cys Ile Ser Asp Asn Tyr Gln Leu Trp Leu Gly Arg His Asn
65 70 75 80
Leu Phe Asp Asp Glu Asn Thr Ala Gln Phe Val His Val Ser Glu Ser
85 90 95
Phe Pro His Pro Gly Phe Asn Met Ser Leu Leu Glu Asn His Thr Arg
100 105 110
Gln Ala Asp Glu Asp Tyr Ser His Asp Leu Met Leu Leu Arg Leu Thr
115 120 125
Glu Pro Ala Asp Thr Ile Thr Asp Ala Val Lys Val Val Glu Leu Pro
130 135 140
Thr Gln Glu Pro Glu Val Gly Ser Thr Cys Leu Ala Ser Gly Trp Gly
145 150 155 160
Ser Ile Glu Pro Glu Asn Phe Ser Phe Pro Asp Asp Leu Gln Cys Val
165 170 175
Asp Leu Lys Ile Leu Pro Asn Asp Glu Cys Glu Lys Ala His Val Gln
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Lys Val Thr Asp Phe Met Leu Cys Val Gly His Leu Glu Gly Gly Lys
195 200 205
Asp Thr Cys Val Gly Asp Ser Gly Gly Pro Leu Met Cys Asp Gly Val
210 215 220
Leu Gln Gly Val Thr Ser Trp Gly Tyr Val Pro Cys Gly Thr Pro Asn

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Gly	Glu	Glu	Ala	Arg	Pro	Asn	Ser	Trp	Pro	Trp	Gln	Val	Ser	Leu	Gln
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Tyr	Ser	Ser	Asn	Gly	Lys	Trp	Tyr	His	Thr	Cys	Gly	Gly	Ser	Leu	Ile
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Ala	Asn	Ser	Trp	Val	Leu	Thr	Ala	Ala	His	Cys	Ile	Ser	Ser	Ser	Arg
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Thr	Tyr	Arg	Val	Gly	Leu	Gly	Arg	His	Asn	Leu	Tyr	Val	Ala	Glu	Ser
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Gly	Ser	Leu	Ala	Val	Ser	Val	Ser	Lys	Ile	Val	Val	His	Lys	Asp	Trp
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Asn	Ser	Asn	Gln	Ile	Ser	Lys	Gly	Asn	Asp	Ile	Ala	Leu	Leu	Lys	Leu
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Ala	Asn	Pro	Val	Ser	Leu	Thr	Asp	Lys	Ile	Gln	Leu	Ala	Cys	Leu	Pro
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Pro	Ala	Gly	Thr	Ile	Leu	Pro	Asn	Asn	Tyr	Pro	Cys	Tyr	Val	Thr	Gly
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Trp	Gly	Arg	Leu	Gln	Thr	Asn	Gly	Ala	Val	Pro	Asp	Val	Leu	Gln	Gln
			165						170					175	
Gly	Arg	Leu	Leu	Val	Val	Asp	Tyr	Ala	Thr	Cys	Ser	Ser	Ser	Ala	Trp
		180						185					190		
Trp	Gly	Ser	Ser	Val	Lys	Thr	Ser	Met	Ile	Cys	Ala	Gly	Gly	Asp	Gly
	195					200						205			
Val	Ile	Ser	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Asn	Cys	Gln
	210					215					220				
Ala	Ser	Asp	Gly	Arg	Trp	Gln	Val	His	Gly	Ile	Val	Ser	Phe	Gly	Ser
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Arg	Leu	Gly	Cys	Asn	Tyr	Tyr	His	Lys	Pro	Ser	Val	Phe	Thr	Arg	Val
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Gly	Ser	Leu	Ala	Val	Ser	Val	Ser	Lys	Ile	Val	Val	His	Lys	Asp	Trp
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Pro	Ala	Gly	Thr	Ile	Leu	Pro	Asn	Asn	Tyr	Pro	Cys	Tyr	Val	Thr	Gly
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Trp	Gly	Arg	Leu	Gln	Thr	Asn	Gly	Ala	Leu	Pro	Asp	Asp	Leu	Lys	Gln
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Gly	Arg	Leu	Leu	Val	Val	Asp	Tyr	Ala	Thr	Cys	Ser	Ser	Ser	Gly	Trp
			180					185					190		
Trp	Gly	Ser	Thr	Val	Lys	Thr	Asn	Met	Ile	Cys	Ala	Gly	Gly	Asp	Gly
	195						200					205			
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	210					215					220				
Ala	Ser	Asp	Gly	Arg	Trp	Glu	Val	His	Gly	Ile	Gly	Ser	Leu	Thr	Ser
225					230					235					240
Val	Leu	Gly	Cys	Asn	Tyr	Tyr	Tyr	Lys	Pro	Ser	Ile	Phe	Thr	Arg	Val
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Ser	Asn	Tyr	Asn	Asp	Trp	Ile	Asn	Ser	Val	Ile	Ala	Asn	Asn		
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Arg Asp Tyr Leu Trp Thr Ser Ala Lys

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Tyr Leu Trp Thr Ser Ala Lys Asn Thr

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Tyr Leu Trp Thr Ser Ala Lys Asn Thr Leu

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Ser Ala Lys Asn Thr Leu Ser Thr  
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Lys Asn Thr Leu Ser Thr Pro Leu Pro Lys  
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Asn Thr Leu Ser Thr Pro Leu Pro Lys  
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<210> 600  
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<400> 600

Arg Leu Met Lys Glu Glu Ser Pro Val

1 5

<210> 601

<211> 9

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<400> 601

Leu Leu Gln Ala Arg Leu Met Lys Glu

1 5

<210> 602

<211> 10

<212> PRT

<213> Homosapiens

<400> 602

Gln Leu Leu Gln Ala Arg Leu Met Lys Glu

1 5 10

<210> 603

<211> 16

<212> PRT

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Phe Leu Lys Asp His Arg Ile Ser Thr Phe Lys Asn Trp Pro Phe Leu

1 5 10 15

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1 5 10 15

Glu Leu Thr Leu Gly Glu Phe Leu Lys Leu Asp Arg Glu Arg Ala Lys

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<210> 605

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1 5 10

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1 5 10 15  
Asn Leu

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1 5 10

<210> 608  
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1 5 10 15  
Arg Leu Met Lys Glu Glu Ser Pro Val Val  
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1 5 10

<210> 611

<211> 179  
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<400> 611

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Gly	Pro	Gly	Gly	Pro	Gly	Ile	Pro	Asp	Gly	Pro	Gly	Gly	Asn	Ala	Gly
		20						25					30		
Gly	Pro	Gly	Glu	Ala	Gly	Ala	Thr	Gly	Gly	Arg	Gly	Pro	Arg	Gly	Ala
		35					40					45			
Gly	Ala	Ala	Arg	Ala	Ser	Gly	Pro	Gly	Gly	Gly	Ala	Pro	Arg	Gly	Pro
	50					55					60				
His	Gly	Gly	Ala	Ala	Ser	Gly	Leu	Asn	Gly	Cys	Cys	Arg	Cys	Gly	Ala
65					70					75					80
Arg	Gly	Pro	Glu	Ser	Arg	Leu	Leu	Glu	Phe	Leu	Ala	Met	Pro	Phe	Ala
			85						90					95	
Thr	Pro	Met	Glu	Ala	Glu	Leu	Ala	Arg	Arg	Ser	Leu	Ala	Gln	Asp	Ala
			100					105					110		
Pro	Pro	Leu	Pro	Val	Pro	Gly	Val	Leu	Leu	Lys	Glu	Phe	Thr	Val	Ser
		115					120					125			
Gly	Asn	Ile	Leu	Thr	Ile	Arg	Leu	Thr	Ala	Ala	Asp	His	Arg	Gln	Leu
	130					135					140				
Gln	Leu	Ser	Ile	Ser	Ser	Cys	Leu	Gln	Gln	Leu	Ser	Leu	Leu	Met	Trp
145					150					155					160
Ile	Thr	Gln	Cys	Phe	Leu	Pro	Val	Phe	Leu	Ala	Gln	Pro	Pro	Ser	Gly
			165						170					175	
Gln	Arg	Arg													

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 <213> Homo sapien

<400> 612

Met	Gln	Ala	Glu	Gly	Arg	Gly	Thr	Gly	Gly	Ser	Thr	Gly	Asp	Ala	Asp
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Gly	Pro	Gly	Gly	Pro	Gly	Ile	Pro	Asp	Gly	Pro	Gly	Gly	Asn	Ala	Gly
		20						25					30		
Gly	Pro	Gly	Glu	Ala	Gly	Ala	Thr	Gly	Gly	Arg	Gly	Pro	Arg	Gly	Ala
		35					40					45			
Gly	Ala	Ala	Arg	Ala	Ser	Gly	Pro	Gly	Gly	Gly	Ala	Pro	Arg	Gly	Pro
	50					55					60				
His	Gly	Gly	Ala	Ala	Ser	Gly	Leu	Asn	Gly	Cys	Cys	Arg	Cys	Gly	Ala
65					70					75					80
Arg	Gly	Pro	Glu	Ser	Arg	Leu	Leu	Glu	Phe	Tyr	Leu	Ala	Met	Pro	Phe
			85						90					95	
Ala	Thr	Pro	Met	Glu	Ala	Glu	Leu	Ala	Arg	Arg	Ser	Leu	Ala	Gln	Asp
			100					105					110		
Ala	Pro	Pro	Leu	Pro	Val	Pro	Gly	Val	Leu	Leu	Lys	Glu	Phe	Thr	Val
		115					120					125			
Ser	Gly	Asn	Ile	Leu	Thr	Ile	Arg	Leu	Thr	Ala	Ala	Asp	His	Arg	Gln
	130					135					140				
Leu	Gln	Leu	Ser	Ile	Ser	Ser	Cys	Leu	Gln	Gln	Leu	Ser	Leu	Leu	Met
145					150					155					160

Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser  
165 170 175  
Gly Gln Arg Arg  
180

<210> 613  
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<212> PRT  
<213> Homo sapien

<400> 613  
Met Gln Ala Glu Gly Gln Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
1 5 10 15  
Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
20 25 30  
Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
35 40 45  
Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
50 55 60  
His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
65 70 75 80  
Arg Arg Pro Asp Ser Arg Leu Leu Gln Leu His Ile Thr Met Pro Phe  
85 90 95  
Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg Ile Leu Ser Arg Asp  
100 105 110  
Ala Ala Pro Leu Pro Arg Pro Gly Ala Val Leu Lys Asp Phe Thr Val  
115 120 125  
Ser Gly Asn Leu Leu Phe Ile Arg Leu Thr Ala Ala Asp His Arg Gln  
130 135 140  
Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met  
145 150 155 160  
Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser  
165 170 175  
Gly Gln Arg Arg  
180

<210> 614  
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<212> PRT  
<213> Homo sapien

<400> 614  
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Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
20 25 30  
Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
35 40 45  
Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
50 55 60  
His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
65 70 75 80  
Arg Arg Pro Asp Ser Arg Leu Leu Gln Leu His Ile Thr Met Pro Phe  
85 90 95  
Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg Ile Leu Ser Arg Asp



Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
                   20                  25                  30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
                   35                  40                  45  
 Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Gly  
                   50                  55                  60  
 Ala Pro Arg Gly Pro His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg  
                   65                  70                  75                  80  
 Cys Pro Cys Gly Ala Arg Arg Pro Asp Ser Arg Leu Leu Gln Leu His  
                   85                  90                  95  
 Ile Thr Met Pro Phe Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg  
                   100                  105                  110  
 Ile Leu Ser Arg Asp Ala Ala Pro Leu Pro Arg Pro Gly Ala Val Leu  
                   115                  120                  125  
 Lys Asp Phe Thr Val Ser Gly Asn Leu Leu Phe Met Ser Val Arg Asp  
                   130                  135                  140  
 Gln Asp Arg Glu Gly Ala Gly Arg Met Arg Val Val Gly Trp Gly Leu  
                   145                  150                  155                  160  
 Gly Ser Ala Ser Pro Glu Gly Gln Lys Ala Arg Asp Leu Arg Thr Pro  
                   165                  170                  175  
 Lys His Lys Val Ser Glu Gln Arg Pro Gly Thr Pro Gly Pro Pro Pro  
                   180                  185                  190  
 Pro Glu Gly Ala Gln Gly Asp Gly Cys Arg Gly Val Ala Phe Asn Val  
                   195                  200                  205  
 Met Phe Ser Ala Pro His Ile  
                   210                  215

<210> 617  
 <211> 210  
 <212> PRT  
 <213> Homo sapien

<400> 617  
 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
                   1                  5                  10                  15  
 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
                   20                  25                  30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
                   35                  40                  45  
 Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
                   50                  55                  60  
 His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
                   65                  70                  75                  80  
 Arg Arg Pro Asp Ser Arg Leu Leu Gln Leu His Ile Thr Met Pro Phe  
                   85                  90                  95  
 Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg Ile Leu Ser Arg Asp  
                   100                  105                  110  
 Ala Ala Pro Leu Pro Arg Pro Gly Ala Val Leu Lys Asp Phe Thr Val  
                   115                  120                  125  
 Ser Gly Asn Leu Leu Phe Met Ser Val Arg Asp Gln Asp Arg Glu Gly  
                   130                  135                  140  
 Ala Gly Arg Met Arg Val Val Gly Trp Gly Leu Gly Ser Ala Ser Pro  
                   145                  150                  155                  160  
 Glu Gly Gln Lys Ala Arg Asp Leu Arg Thr Pro Lys His Lys Val Ser  
                   165                  170                  175  
 Glu Gln Arg Pro Gly Thr Pro Gly Pro Pro Pro Pro Glu Gly Ala Gln

	180		185		190
Gly Asp Gly Cys Arg Gly Val Ala Phe Asn Val Met Phe Ser Ala Pro					
	195		200		205
His Ile					
210					

<210> 618  
 <211> 179  
 <212> PRT  
 <213> Homo sapien

<400> 618  
 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
 1 5 10 15  
 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
 20 25 30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
 35 40 45  
 Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
 50 55 60  
 His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
 65 70 75 80  
 Arg Arg Pro Asp Ser Arg Leu Leu Gln Leu His Ile Thr Met Pro Phe  
 85 90 95  
 Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg Ile Leu Ser Arg Asp  
 100 105 110  
 Ala Ala Pro Leu Pro Arg Pro Gly Ala Val Leu Lys Asp Phe Thr Val  
 115 120 125  
 Ser Gly Asn Leu Leu Phe Ile Arg Leu Thr Ala Ala Asp His Arg Gln  
 130 135 140  
 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met  
 145 150 155 160  
 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Ser Gly  
 165 170 175  
 Gln Arg Arg

<210> 619  
 <211> 30  
 <212> PRT  
 <213> Homo sapien

<400> 619  
 Ala Phe Ser Pro Gln Gly Met Pro Glu Gly Asp Leu Val Tyr Val Asn  
 1 5 10 15  
 Tyr Ala Arg Thr Glu Asp Phe Phe Lys Leu Glu Arg Asp Met  
 20 25 30

<210> 620  
 <211> 30  
 <212> PRT  
 <213> Homo sapien

<400> 620

Arg Gly Ile Ala Glu Ala Val Gly Leu Pro Ser Ile Pro Val His Pro  
 1 5 10 15  
 Ile Gly Tyr Tyr Asp Ala Gln Lys Leu Leu Glu Lys Met Gly  
 20 25 30

<210> 621  
 <211> 33  
 <212> PRT  
 <213> Homo sapien

<400> 621  
 Asn Ile Tyr Asp Leu Phe Val Trp Met His Tyr Tyr Val Ser Met Asp  
 1 5 10 15  
 Ala Leu Leu Gly Gly Ser Glu Ile Trp Arg Asp Ile Asp Phe Ala His  
 20 25 30  
 Glu

<210> 622  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 622  
 Leu Arg Arg His Arg Pro Leu Gln Glu Val Tyr Pro Glu Ala Asn Ala  
 1 5 10 15  
 Pro Ile Gly His Asn Arg Glu Ser Tyr Met Val  
 20 25

<210> 623  
 <211> 35  
 <212> PRT  
 <213> Homo sapien

<400> 623  
 Asn Ala Pro Ile Gly His Asn Arg Glu Ser Tyr Met Val Pro Phe Ile  
 1 5 10 15  
 Pro Leu Tyr Arg Asn Gly Asp Phe Phe Ile Ser Ser Lys Asp Leu Gly  
 20 25 30  
 Tyr Asp Tyr  
 35

<210> 624  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 624  
 Pro Asp Ser Phe Gln Asp Tyr Ile Lys Ser Tyr Leu Glu Gln Ala Ser  
 1 5 10 15  
 Arg Ile Trp Ser Trp Leu Leu Gly Ala Ala Met Val  
 20 25



<210> 625  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 625  
 Gly Pro Ala Tyr Ser Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu  
 1 5 10 15  
 Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly  
 20 25

<210> 626  
 <211> 29  
 <212> PRT  
 <213> Homo sapien

<400> 626  
 Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys  
 1 5 10 15  
 Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp  
 20 25

<210> 627  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 627  
 Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro  
 1 5 10 15  
 Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser  
 20 25

<210> 628  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 628  
 Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn  
 1 5 10 15  
 Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser  
 20 25 30

<210> 629  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 629  
 Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe Val Asn  
 1 5 10 15

Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile  
 20 25

<210> 630  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 630  
 Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys  
 1 5 10 15  
 Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu  
 20 25

<210> 631  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 631  
 Leu Ser Val Thr Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln  
 1 5 10 15  
 Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile  
 20 25

<210> 632  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 632  
 His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Asp Pro  
 1 5 10 15  
 Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro  
 20 25

<210> 633  
 <211> 33  
 <212> PRT  
 <213> Homo sapien

<400> 633  
 Asp Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val  
 1 5 10 15  
 Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr  
 20 25 30  
 Ser

<210> 634  
 <211> 28  
 <212> PRT

<213> Homo sapien

<400> 634

Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Leu Ile Asp  
1 5 10 15  
Gly Asn Ile Gln Gln His Thr Gln Glu Leu Phe Ile  
20 25

<210> 635

<211> 27

<212> PRT

<213> Homo sapien

<400> 635

Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro  
1 5 10 15  
Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser  
20 25

<210> 636

<211> 28

<212> PRT

<213> Homo sapien

<400> 636

Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly Ala Asn  
1 5 10 15  
Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser  
20 25

<210> 637

<211> 27

<212> PRT

<213> Homo sapien

<400> 637

Cys His Ser Ala Ser Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn  
1 5 10 15  
Gly Ile Pro Gln Gln His Thr Gln Val Leu Phe  
20 25

<210> 638

<211> 35

<212> PRT

<213> Homo sapien

<400> 638

Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe Val Ser  
1 5 10 15  
Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile Thr Val  
20 25 30  
Ser Ala Ser  
35

<210> 639  
<211> 27  
<212> PRT  
<213> Homo sapien

<400> 639  
Arg Ser Thr Tyr Arg Pro Arg Pro Arg Arg Tyr Val Glu Pro Pro Glu  
1 5 10 15  
Met Ile Gly Pro Met Arg Pro Glu Gln Phe Ser  
20 25

<210> 640  
<211> 27  
<212> PRT  
<213> Homo sapien

<400> 640  
Lys Thr Pro Glu Glu Glu Met Arg Ser His Tyr Val Ala Gln Thr Gly  
1 5 10 15  
Ile Leu Trp Leu Leu Met Asn Asn Cys Phe Leu  
20 25

<210> 641  
<211> 26  
<212> PRT  
<213> Homo sapien

<400> 641  
Arg Ser His Tyr Val Ala Gln Thr Gly Ile Leu Trp Leu Leu Met Asn  
1 5 10 15  
Asn Cys Phe Leu Asn Leu Ser Pro Arg Lys  
20 25

<210> 642  
<211> 27  
<212> PRT  
<213> Homo sapien

<400> 642  
Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe Pro Thr  
1 5 10 15  
Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser  
20 25

<210> 643  
<211> 28  
<212> PRT  
<213> Homo sapien

<400> 643  
Ala Glu Met Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro

1	5	10	15
Glu Ile Phe Gly Lys Ala Ser Glu Ser Leu Gln Leu			
20		25	

<210> 644  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 644	
Leu Trp Gly Pro Arg Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu	
1 5 10 15	
His His Thr Leu Lys Ile Gly Gly Glu Pro His Ile	
20 25	

<210> 645  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 645	
Leu His His Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro	
1 5 10 15	
Pro Leu His Glu Arg Ala Leu Arg Glu Gly Glu Glu	
20 25	

<210> 646  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 646	
Leu His His Met Val Lys Ile Ser Gly Gly Pro His Ile Ser Tyr Pro	
1 5 10 15	
Pro Leu His Glu Trp Val Leu Arg Glu Gly Glu Glu	
20 25	

<210> 647  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 647	
Gly Cys Trp Tyr Cys Arg Arg Arg Asn Gly Tyr Arg Ala Leu Met Asp	
1 5 10 15	
Lys Ser Leu His Val Gly Thr Gln Cys Ala Leu Thr	
20 25	

<210> 648  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 648

Ser Tyr Ile Ser Pro Glu Lys Glu Glu Gln Tyr Ile Ala Gln Phe Thr  
1 5 10 15  
Ser Gln Phe Leu Ser Leu Gln Cys Leu Gln Ala Leu  
20 25

<210> 649

<211> 30

<212> PRT

<213> Homo sapien

<400> 649

Ser Asn Leu Thr His Val Leu Tyr Pro Val Pro Leu Glu Ser Tyr Glu  
1 5 10 15  
Asp Ile His Gly Thr Leu His Leu Glu Arg Leu Ala Tyr Leu  
20 25 30

<210> 650

<211> 29

<212> PRT

<213> Homo sapien

<400> 650

His Gly Thr Leu His Leu Glu Arg Leu Ala Tyr Leu His Ala Arg Leu  
1 5 10 15  
Arg Glu Leu Leu Cys Glu Leu Gly Arg Pro Ser Met Val  
20 25

<210> 651

<211> 27

<212> PRT

<213> Homo sapien

<400> 651

Thr Gln Glu Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly  
1 5 10 15  
Ser Ile Glu Pro Glu Glu Phe Leu Thr Pro Lys  
20 25

<210> 652

<211> 33

<212> PRT

<213> Homo sapien

<400> 652

Gly Trp Gly Ser Ile Glu Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu  
1 5 10 15  
Gln Cys Val Asp Leu His Val Ile Ser Asn Asp Val Cys Ala Gln Val  
20 25 30  
His

<210> 653  
<211> 28  
<212> PRT  
<213> Homo sapien

<400> 653  
Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly Lys Lys  
1 5 10 15  
Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala  
20 25

<210> 654  
<211> 28  
<212> PRT  
<213> Homo sapien

<400> 654  
Arg Asp Ser Trp Val Phe Gly Gly Ile Asp Pro Gln Ser Gly Ala Ala  
1 5 10 15  
Val Val His Glu Ile Val Arg Ser Phe Gly Thr Leu  
20 25

<210> 655  
<211> 27  
<212> PRT  
<213> Homo sapien

<400> 655  
Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala Asp Lys Ile Tyr  
1 5 10 15  
Ser Ile Ser Met Lys His Pro Gln Glu Met Lys  
20 25

<210> 656  
<211> 28  
<212> PRT  
<213> Homo sapien

<400> 656  
Ser Met Lys His Pro Gln Glu Met Lys Thr Tyr Ser Val Ser Phe Asp  
1 5 10 15  
Ser Leu Phe Ser Ala Val Lys Asn Phe Thr Glu Ile  
20 25

<210> 657  
<211> 30  
<212> PRT  
<213> Homo sapien

<400> 657  
Lys Asn Gly Glu Asn Ile Asp Ser Asp Pro Ala Leu Gln Lys Val Asn  
1 5 10 15

Phe Leu Pro Val Leu Glu Gln Val Gly Asn Ser Asp Cys His  
 20 25 30

<210> 658  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 658  
 Glu Tyr Glu Arg Glu Glu Thr Arg Gln Val Tyr Met Asp Leu Asn Ser  
 1 5 10 15  
 Asn Ile Glu Lys Met Ile Thr Ala Phe Glu Glu  
 20 25

<210> 659  
 <211> 30  
 <212> PRT  
 <213> Homo sapien

<400> 659  
 Gln Gln Arg Leu Glu Asn Tyr Glu Asp Gln Leu Ile Ile Leu Thr Met  
 1 5 10 15  
 Glu Leu Gln Lys Thr Ser Ser Glu Leu Glu Glu Met Thr Lys  
 20 25 30

<210> 660  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 660  
 Ser Ser Glu Leu Glu Glu Met Thr Lys Leu Thr Asn Asn Lys Glu Val  
 1 5 10 15  
 Glu Leu Glu Glu Leu Lys Lys Val Leu Gly Glu  
 20 25

<210> 661  
 <211> 28  
 <212> PRT  
 <213> Homo sapien

<400> 661  
 Gln Gln Ala Ser Pro Pro Pro Asn Glu Leu Thr Gln Glu Thr Ser Asp  
 1 5 10 15  
 Met Thr Leu Glu Leu Lys Asn Gln Gln Glu Asp Ile  
 20 25

<210> 662  
 <211> 34  
 <212> PRT  
 <213> Homo sapien



<400> 662  
 Ile Ile Asn Asn Lys Lys Gln Glu Glu Arg Met Leu Thr Gln Ile Glu  
 1 5 10 15  
 Asn Leu Gln Glu Thr Glu Thr Gln Leu Arg Asn Glu Leu Glu Tyr Val  
 20 25 30  
 Arg Glu

<210> 663  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 663  
 Ile Glu Asn Leu Gln Glu Thr Glu Thr Gln Leu Arg Asn Glu Leu Glu  
 1 5 10 15  
 Tyr Val Arg Glu Glu Leu Lys Gln Lys Arg Asp  
 20 25

<210> 664  
 <211> 37  
 <212> PRT  
 <213> Homo sapien

<400> 664  
 Ile Glu Asp Lys Lys Ile Ser Glu Glu Asn Leu Leu Glu Glu Val Glu  
 1 5 10 15  
 Lys Ala Lys Val Ile Ala Asp Glu Ala Val Lys Leu Gln Lys Glu Ile  
 20 25 30  
 Asp Lys Arg Cys Gln  
 35

<210> 665  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 665  
 Lys Glu Ile Asp Lys Arg Cys Gln His Lys Ile Ala Glu Met Val Ala  
 1 5 10 15  
 Leu Met Glu Lys His Lys His Gln Tyr Asp Lys  
 20 25

<210> 666  
 <211> 35  
 <212> PRT  
 <213> Homo sapien

<400> 666  
 Lys Glu Gln Glu Gln Ser Ser Leu Arg Ala Ser Leu Glu Ile Glu Leu  
 1 5 10 15  
 Ser Asn Leu Lys Ala Glu Leu Leu Ser Val Lys Lys Gln Leu Glu Ile  
 20 25 30

Glu Arg Glu  
35

<210> 667  
<211> 31  
<212> PRT  
<213> Homo sapien

<400> 667  
Lys Glu Lys Lys Asp Lys Lys Thr Gln Thr Phe Leu Leu Glu Thr Pro  
1 5 10 15  
Asp Ile Tyr Trp Lys Leu Asp Ser Lys Ala Val Pro Ser Gln Thr  
20 25 30

<210> 668  
<211> 28  
<212> PRT  
<213> Homo sapien

<400> 668  
Lys Leu Asp Ser Lys Ala Val Pro Ser Gln Thr Val Ser Arg Asn Phe  
1 5 10 15  
Thr Ser Val Asp His Gly Ile Ser Lys Asp Lys Arg  
20 25

<210> 669  
<211> 28  
<212> PRT  
<213> Homo sapien

<400> 669  
His Gly Ile Ser Lys Asp Lys Arg Asp Tyr Leu Trp Thr Ser Ala Lys  
1 5 10 15  
Asn Thr Leu Ser Thr Pro Leu Pro Lys Ala Tyr Thr  
20 25

<210> 670  
<211> 28  
<212> PRT  
<213> Homo sapien

<400> 670  
Lys Arg Asp Tyr Leu Trp Thr Ser Ala Lys Asn Thr Leu Ser Thr Pro  
1 5 10 15  
Leu Pro Lys Ala Tyr Thr Val Lys Thr Pro Thr Lys  
20 25

<210> 671  
<211> 27  
<212> PRT  
<213> Homo sapien

<400> 671  
 Met Asn Gly Asp Asp Ala Phe Ala Arg Arg Pro Thr Val Gly Ala Gln  
 1 5 10 15  
 Ile Pro Glu Lys Ile Gln Lys Ala Phe Asp Asp  
 20 25

<210> 672  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<400> 672  
 Glu Thr Asn Asn Lys Lys Lys Glu Phe Glu Glu Thr Ala Lys Lys Val  
 1 5 10 15  
 Arg Arg Ala Ile Glu Gln Leu Ala Ala Met Asp  
 20 25

<210> 673  
 <211> 35  
 <212> PRT  
 <213> Homo sapien

<400> 673  
 Met Ala Ala Gly Ala Val Phe Leu Ala Leu Ser Ala Gln Leu Leu Gln  
 1 5 10 15  
 Ala Arg Leu Met Lys Glu Glu Ser Pro Val Val Ser Trp Arg Leu Glu  
 20 25 30  
 Pro Glu Asp  
 35

<210> 674  
 <211> 7  
 <212> PRT  
 <213> Homo sapien

<400> 674  
 Tyr Phe Ser Lys Glu Glu Trp  
 1 5

<210> 675  
 <211> 10  
 <212> PRT  
 <213> Homo sapien

<400> 675  
 Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met  
 1 5 10

<210> 676  
 <211> 13  
 <212> PRT  
 <213> Homo sapien

<400> 676

Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser  
1 5 10

<210> 677

<211> 17

<212> PRT

<213> Homo sapien

<400> 677

Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile  
1 5 10 15  
Phe

<210> 678

<211> 18

<212> PRT

<213> Homo sapien

<400> 678

Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile  
1 5 10 15  
Phe Tyr

<210> 679

<211> 12

<212> PRT

<213> Homo sapien

<400> 679

Glu Lys Met Lys Ala Ser Glu Lys Ile Phe Tyr Val  
1 5 10

<210> 680

<211> 19

<212> PRT

<213> Homo sapien

<400> 680

Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile  
1 5 10 15  
Phe Tyr Val

<210> 681

<211> 20

<212> PRT

<213> Homo sapien

<400> 681

Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile  
1 5 10 15  
Phe Tyr Val Tyr  
20

<210> 682

<211> 12

<212> PRT

<213> Homo sapien

<400> 682

Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu  
1 5 10

<210> 683

<211> 31

<212> PRT

<213> Homo sapien

<400> 683

Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile  
1 5 10 15  
Phe Tyr Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu  
20 25 30

<210> 684

<211> 13

<212> PRT

<213> Homo sapien

<400> 684

Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly Phe  
1 5 10

<210> 685

<211> 14

<212> PRT

<213> Homo sapien

<400> 685

Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly Phe  
1 5 10

<210> 686

<211> 15

<212> PRT

<213> Homo sapien

<400> 686

Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly Phe  
1 5 10 15

<210> 687  
<211> 33  
<212> PRT  
<213> Homo sapien

<400> 687  
Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile  
1 5 10 15  
Phe Tyr Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly  
20 25 30  
Phe

<210> 688  
<211> 35  
<212> PRT  
<213> Homo sapien

<400> 688  
Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile  
1 5 10 15  
Phe Tyr Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly  
20 25 30  
Phe Lys Ala  
35

<210> 689  
<211> 10  
<212> PRT  
<213> Homo sapien

<400> 689  
Glu Leu Ala Gly Ile Gly Ile Leu Thr Val  
1 5 10

<210> 690  
<211> 10  
<212> PRT  
<213> Homo sapien

<400> 690  
Glu Ala Ala Gly Ile Gly Ile Leu Thr Val  
1 5 10